BRUHAT BANGALORE MAHANAGARA PALIKE

YELHANKA ZONE ELECTRICAL DIVISION

Name of Work:-Shifting of DTC No 87 along with LT & HT line in between Median TATA Nagara circle Kodigehalli (Bhadrappa Layout) in O & M 15/1 BESCOM Kodigehalli Ward No 8

Budget Head .....P1771. Zone works-pow works.....

Division No..... Estimate No. 08/2017-18 For Rs. **1000000.00**

Sl.No.	SR Page & SL No	Description of Work	Qty.	Rate Rs.	Unit	Amount
		BESCOM SR 2016-17				
1		Supplaying of 11 Mtrs Spun pole	3	15800.00	Nos	47400.00
2		Labour Charges For Erection of 11 Mtrs Spun pole	3	2353.00	Nos	7059.00
3		a) Base concreating 1:4:8 1000X1000X150 mm	3	704.00	Nos	2112.00
4		b) Pole concreating 1:2:4 1000X1000X2500 mm	3	11378.00	Nos	34134.00
5		c) Coping 1:2:4 (as per actuals)	3	1050.00	Nos	3150.00
6		Supplaying of Piercing connector suitable for 16 Sqmm -95 sqmm AB Cable-Service connections	40	228.00	Each	9120.00
7		Erection of Piercing connector suitable for 16 Sqmm -95 sqmm AB Cable-Service connections	40	77.00		3080.00
8		Supplaying of Suspension clamp assembly	6	305.00	Each	1830.00
9		Erection of Suspension clamp assembly	6	115.00		690.00
10		Supplaying of Dead end clamp/Anchor clamp Assy	6	131.00	Per Mtr	786.00
11		Erection of Dead end clamp/Anchor clamp Assy	6	154.00		924.00
12		Supplaying of Universal hooks, Bolts & Nuts	6	305.00	Per Mtr	1830.00
13		Erection of Universal hooks, Bolts & Nuts	6	115.00		690.00
14		Supplaying of Pre Insulates lugs-CPTAU for 95 sq mm	20	338.00	Per Mtr	6760.00
15		Erection of Pre Insulates lugs-CPTAU for 95 sq mm	20	160.00		3200.00
16		Supplaying of End cap for 50/70 sq mm	20	19.00	Per Mtr	380.00
17		Erection of End cap for 50/70 sq mm	20	5.00		100.00
18		Alkathine tube	2	500.00	Per Mtr	1000.00
19		Supplaying and erection of Guy wire 7/10 SWG	10	56.00	Kg	560.00

20		Supplaying of 11 KV HT Aerial bunch cable 3X95+1X70 Sqmm (Bare/Insulated messenger wire) HT Aerial bunched cable	0.06	631000.00	Kms	37860.00
21		Stringing of 11 KV HT Aerial bunch cable 3X95+1X70 Sqmm (Bare/Insulated messenger wire) HT Aerial bunched cable	0.06	20426.00	Kms	1225.56
22		Supplaying of 11 kv Termination kits	2	2100.00	Each	4200.00
23		Labour Charges For 11 kv Termination kits	2	700.00	Each	1400.00
24		Grounding connection for messenger wire	2	122.00	Each	244.00
25		Labour For Grounding connection for messenger wire	2	25.00		50.00
26		Anchor sleeves for messengers wire	3	23.00	Each	69.00
27		Labour chargers for Anchor sleeves for messengers wire	3	5.00		15.00
28		Supply of Spiral Earth Electrode	2	207.00	Per Mtr	414.00
29		Labour Charges For Spiral Earth Electrode	2	55.00		110.00
30		Supplaying of 4 Pin Cross arm with pole clamp, bolt & nuts & washers for RCC Pole-GI	4	263.00	Sqcm	1052.00
31		Fixing of 4 Pin Cross arm with pole clamp, bolt & nuts & washers for RCC Pole-GI	4	96.00	Nos	384.00
32		Supplaying of 2 Pin Cross arm with pole clamp, bolt & nuts & washers for RCC Pole-GI	4	212.00	Mtrs	848.00
33		Fixing of 2 Pin Cross arm with pole clamp, bolt & nuts & washers for RCC Pole-GI	4	96.00	Nos	384.00
34		Supplay and Fixing of 1.1 KV Ceramic Pin Insulator	20	38.00	Nos	760.00
35		11 KV Horizontal X-Arm	4	382.00	Nos	1528.00
36		11 KV Horizontal X-Arm	4	99.00	Nos	396.00
37		Supplay and Fixing of11 KV Disc Insulator	6	290.00	Nos	1740.00
38		Supplay and Fixing of11 KV Pin Insulator	12	94.00	Nos	1128.00
39		Supplay of PVC Insulation tap	20	10.00	Nos	200.00
40		Supplaying and laying of GI Pipe 100 mm Dia	10	1143.00	Mtrs	11430.00
41		Supplaying and laying of PVC Pipe 150 mm Dia	20	291.00	Mtrs	5820.00
42		Supplaying and laying of PVC Pipe 25 mm Dia	10	27.00	Mtrs	270.00
43		Supplaying and laying of Al.lead wire 240 sq mm	45	199.00	Mtrs	8955.00
44		Supplaying of fixing of Copper legs 240 sq mm	12	184.00	Nos	2208.00
45		Supplaying of fixing of PG Clamp-Rabbit to 240 sq mm	4	307.00	Nos	1228.00
46		Supplaying of fixing of Spacer for DTC wiring	8	38.00	Nos	304.00
47		Supplaying of fixing of Fish plate with necessary bolts & nuts	2	155.00	Nos	310.00
48		Supplaying of fixing of Anti climbing device	2	64.00	Nos	128.00
49		Supplaying of fixing of 11 KV special 3 pin X Arm-GI	1	745.00	Nos	745.00

50		Earthing materials pipe type for grounding	3	1277.00	Nos	3831.00
51		Releasing and Reerection of RCC Pole - 9 Mtr Long 145 Kg WL X 1.9	15	1.9x1145.00	No	32632.50
52		Releasing and Reerection of 4 Pin Cross Arm with pole clamp bolt & nuts & washers for RCC Pole -GI	15	1.9x96.00	No	2736.00
53		Releasing and Reerection of 2 Pin Cross Arm with pole clamp bolt & nuts & Washers for RCC Pole-GI	15	1.9x96.00	No	2736.00
54		Releasing and Reerection of 11 KV Horizontal X-Arm	15	1.9x96.00	Set	2736.00
55		Releasing and Reerection of 11 mtrs spun pole	2	1.9x2353.00	Nos	8941.40
56		Releasing and Reerection of 11 KV/433V, 250 KVA, 3Phase 50 Cys, Distribution transformer Oil type	1	1.9x1365.00	No	2593.50
57		Construction plat form for DTC	1	25192	No	25192.00
58		Releasing and Restringing of Rabbit ACSR Conductor	3	1.9x2608.00	Kms	14865.60
59		Releasing and Restringing ofCoyote ACSR Conductor	1.8	1.9x4555.00	Kms	15578.10
60		Releasing and Reerection of Transformer Structure Kit	1	1.9x2033.00	Set	3862.70
61		Releasing and Reerection of 11 KV 200 A Single break GOS	1	1.9x636.00	No	1208.40
62		Releasing and Reerection of 11 KV Soloid care type HG Fuse unit	1	1.9x423.00	Ser	803.70
63		11 KV Lightining arrester, metal oxide, 9KV, 5 KV	1	1.9x107.00	set	203.30
64		Releasing and Reerection of LT Distribution box with MCCB	1	1.9x455.00	No	864.50
65		Releasing and Reerection of LT Electroni Tri vector meter SA Class 0.5/1.0 accuracy	1	1.9x631.00	No	1198.90
66		Releasing and Reerection of LT wiring box with CTs and necessary wiring	1	1.9x514.00	No	976.60
67		Releasing and Reerection of LT wiring kit for 250 KVA DTC	1	1.9x205.00	Set	389.50
		PWD Electrical SR 2014-15				
68	34/5.12	Supplying and Fixing of Rabbit Conductor(6/3.15mm Al +6/3.15mm Steel).	200	47.00	Mtrs	9400.00
69	56/7.6.7	Supplying of 1.1KV grade Aerial Bunched Cable Stranded & Compacted Aluminum Phase Conductor, and Stranded Messenger Conductor with all aluminum Alloy, Phase Conductor is insulated with XLPE Compound, insulated Messenger with specified IS-14255:1995 & confirming to GTP of GROUP-A.3 X 95 + 1 X 70 + 1 X 16 SQ.MM	100	525.00	Mtrs	52500.00

70	7.22.2	Supplying and running GI/Copper conductor for grounding and (along with other wires in conduit system of wiring) using necessary suitable size clamps, nails, guttas/spacers etc. GI Wire 10 SWG	50	14.70	Mtrs	735.00
71	33/5.8.7	Supplying and Fixing ..... including all Hardware's etc. complete as per the standard technical specification of BESCOM GUY Set	4	1320.00	Set	5280.00
72	55/7.1	Supplying, fixing, wiring, earth electrode for grounding conduits, I.C. cutouts and other equipment's on the meter board using 40mm dia 2.90mm thick GI pipe 2.5 mtr long buried in a pit ... The pit should be filled with equal proportion of salt and charcoal 150mm all-round the pipe to complete depth. The connection from the pipe to the conduit etc., is to be established through GI wire of size as per ISI specification 7.3.3. of IS 732 using 12mm dia bolts, nuts, washers and check nuts etc., the pipe shall have 16 through holes of 122 mm dia	5	2727.00	Set	13635.00
73	27/4.36.1	LED Street light. Supply of LED Streetlight with pressure die cast aluminum housing body with optimal heat sink for better thermal dissipation. Diffuser with Injection moulded & is made of polycarbonate material with high transmission index, delivering superior light output. Rated life Burning Hrs. 50000 hr. @ Lumen Maintenance of 70%. CCT > 5500K, IP 66 optical and electrical compartment & impact resistance of complete luminaire > IK08. Power Factor >0.9 with mains Current should not be greater than 0.1A to 0.7A & Surge Protection- Min 4 KV along with Over voltage/Overload, short circuit/ miswiring protection. Compatible for pole mounting with outer dia of 40mm to 50mm. Universal Voltage driver to operate wide voltage range from 100V to LED Light fixture with .....W System Power consumption. LED Efficiency>130lm/w at 1W & Fixture Efficiency >80lm/w with nominal CRI 75+. housing with supplier word mark / name shall be engraved / Embossing on the die cast housing / body part. . Luminaire manufacturer should have in-house facility accredited by NABL/CPRI & any Government certified agency & Design & Development facility certified by ISO 9001:2008. Warranty of 5 Years against any manufacturing defect working under standard electrical conditions as mentioned above should be given by LED source manufacturer. Suitable for A1/A2 Roads as per IS 1944 Part I & Part II.90 Watts	17	31250.00	Nos	531250.00

/4	108/17.12	Supplying and Fixing of.....mm dia class A GI pipe bracket up to 2 mtrs long bent at suitable angle and fixing to this bracket 1x40/2x40 watts fluorescent tube street light fitting of all capacities to GI or CI or rail or RCC pole / wall using suitable clamps, bolts, and nuts and wiring using suitable capacity wires. Using 32mm dia G.I.pipe	17	893.00	Nos	15181.00
75	49/6.40.2	Fabricating supplying and mounting MS box made out... SWG suitable Ifor floor/wall mounting, fully weather proof with provision for better heat dissipation, provided with hinged front cover, equipped with tamper proof locking arrangements, with suitable size cdlamps with mecessary cable entry pipe with gland and box should be finished with 2 cdoats of red oxide primer paint and finally finished with approved colour enameled metal pain etc., complete. b)16 swg	29700	0.33	Nos	9801.00
76	19. 32/9	Supplying and fixing of Twin Dial electro mechanical timer (without contactor) using necessary bolts, nuts and washers etc.. Group A, PWD SR 2007-08,	4	4200.00	Nos	16800.00
77	6.12.4	Supply and fixing of 4-pole power contactor with NO/NC contacts on existing wood / panel board using necessary bolts, nuts, washers and wiring etc., complete. d) 100-125 Amps	1	9915.00	Nos	9915.00
78	47/6.16.6	Supplying and fixing miniature circuit breakes on exisiting MCB distribution boards using necessary fixing materials and wiring complete as required. f)40-63Amps TPN, Group A	2	1936.00	Nos	3872.00
						70.74
		Total Rs				1000000.00

CERTIFICATE

1. The Place was inspected and work is essential.
2. The Provision made in the estimate is adequate and are necessary.
3. The Work comes in the BBMP limit and is legitimate charges on the Corporation Funds.
4. The rates in the Estimate is based on BESCOM SR 2016-17 and PWD (Elec) SR of 2014-15 .

Jr/Asst. Engineer (Elec)

Asst. Exe. Engineer (Elec)
yelhanka zone
Bruhat Bangalore Mahanagara Palike

Administrative Sanction for Rs. 10.00 Lakhs
Ten Lakhs.
is accorded under head P-1771- Zone Works POW. Works
Registered as EE No. EE/Ele/Yel/Bruhat/2017-18 Subject to conditions contained in enclosed memo No. EE/Ele/Y2/AS/05/2017-18 Dt. 1/7/2017

Executive Engineer

TECHNICALLY SANCTIONED for Rupees Ten Lakhs only
Under P-1771- Zone Works POW. Works
Registered as EE ( ) No. EE/Ele/Y2/EST/01/2016-17
Subject to conditions contained in enclosed memo EE( ) No. EE/Ele/Y2/TS/03/2017-18
Dt. Estimate A/ Sanctioned
EE/Ele/Y2/AS/05/2017-18
Dated 1/7/17 Rs. 10.00 Lakhs

Executive Engineer

EXECUTIVE ENGINEER (ELEC)
YELHANKA ZONE
BRUHAT BANGALORE MAHANAGARA PALIKE